

## Jefferson County – 2018 Hazard Mitigation Action Review

This worksheet summarizes Jefferson County’s mitigation actions for hazards profiled in the 2018 Hazard Mitigation Plan. What is the status of these mitigation actions? Mitigation action that have been Completed, Canceled, Deferred, or is Ongoing are presented with notes on the status of that mitigation action over the last 5 years.

Project Number	Project Description	Hazards Addressed	Responsible Agency	Status				Status Notes
				Completed	Canceled	Deferred	Ongoing	
JC-76	Strategy 10.3.1: Encourage agricultural producers and dairies to plan for power outages and install backup power supplies. Conduct an assessment of the applicability of renewable energy sources as a potential backup power supply.	All hazards	<b>Agricultural producers, WVU Extension Service, Farm Service</b>				X	J.C. WVU EIT Service: 304-728-7413 - Perhaps track the %and # of farms with back-up power. Also, back-up power to what %? WWTp % Refridgerator %
JC-58	Strategy 9.3.1: Ensure that all shelters have adequate emergency power resources. Churches and other facilities that maybe used as shelters should consider installing backup generators.	All hazards	<b>ARC</b>				X	Jess Hott
JC-78	Strategy 13.1.5: Ensure that the Red Cross citizen's disaster course is held on a frequent basis.	All hazards	<b>ARC</b>				X	Jess Hott - Quarterly %
JC-68	Strategy 2.2.2: Consider passing ordinances to prioritize or control water use, particularly for emergency situations such as firefighting.	Wild and Urban Fires	<b>County Commission</b>					As a new commissioner, I am unaware of anything being discussed of this nature - Any infrastructure needs %
JC-73	Strategy 4.6.1: Work with FEMA and WVDHSEM on the Map Modernization Program to improve FIRMS.	Flood	<b>FEMA, WVDHSEM</b>					
JC-07	Pre-identify caregivers or volunteers to partner them with vulnerable populations to ensure vulnerable populations are taken care of before, during, and after emergencies.	All hazards	<b>Good Shepherd IVC</b>					
JC-16	Identify strengths and resources within the organization that can be utilized to implement mutual aid during emergencies. Create mutual aid agreements with identified partners.	All hazards	<b>Good Shepherd IVC</b>					

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JC-67	Upgrade the E911 CAD map to allow dispatchers to update real-time information in the map.	All hazards	JC 911				X	Working with CAD Vendor to Upgrade Map
JC-05	Strategy 13.13.1: Educate and inform local government and elected officials of the need to consider hazard mitigation in policy and budgetary planning and decision-making processes.	All hazards	JC Commission					I do see the importance for local government officials to be aware of the hazard mitigation policy with respect to budgeting.
JC-80	Strategy 4.3.2: Initiate storm water management projects that tie into the Chesapeake Bay Watershed initiatives.	Flood	JC Engineering					Comment: Good for source water protection
JC-91	Strategy 7.3.1: Develop a system to monitor groundwater levels in subsidence-prone areas, as groundwater levels directly influence karst topography, which may lead to sinkholes and subsidence issues.	Land Subsidence	JC Engineering					Need to track well water levels also
JC-06	Train instructors to deliver Stop the Bleed programs to partner agencies and the general public.	All hazards	JC ESA				X	
JC-11	Train first responders on the correct use of naloxone for overdoses and purchase for use.	Public Health Crisis	JC ESA				X	Largely Complete - JCHD provides training also
JC-81	Develop or participate in programs that will replace fire and EMS apparatus as needed.	All hazards	JC ESA					
JC-45	Train personnel and create an in-county hazmat team to reduce the use of out-of-county resources and increase in-county capabilities	Hazmat	JC ESA, VFDs					
JC-66	Install dry wells in remote locations around the county where water infrastructure does not reach.	Wild and Urban Fires	JC ESA, VFDs					
JC-34	Strategy 4.4.2: Provide training to municipalities on the CRS program and encourage them to participate.	Flood	JC Floodplain Manager					
JC-85	Map hillside slopes utilizing GIS technology to ensure proper techniques are employed during development	Landslide	JC GIS		X			No longer require. Still available if requested.

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JC-12	Train peer recovery coaches to assist with addiction problems around the county	Public Health Crisis	JC HD				X	In hiring process
JC-23	Recruit and train volunteers to support hospitals and medical offices during emergencies	Public Health Crisis	JC HD				X	
JC-24	Develop drug education campaigns that focus on risks of drugs and resources available.	Public Health Crisis	JC HD				X	
JC-84	Strategy 11.2.4: Make arrangements or otherwise establish mass morgue facilities to be used following potential mass casualty events.	All hazards	JC HD, Medical Examiner			X		No Action Yet - Need to meet with ME Partners
JC-88	Strategy 7.1.1: Conduct a detailed vulnerability analysis on the county's infrastructure to see what losses could be incurred during a land subsidence event (in pertinent areas).	Land Subsidence	JC IT, JC Engineering, JC Maintenance					
JC-27	Strategy 5.2.1: Increase education and awareness about shelter-in-place opportunities. Jefferson County LEPC to develop and deliver information to all county residents through community groups, publications on website, information on how to shelter in place and when it is appropriate to do so.	Hazmat	JC LEPC				X	
JC-14	Review and update plans regarding stream and river setbacks.	Flood	JC Planning				X	J. Brockman (Good Source for water protection efforts) - SWCC - Alyssa Murray - Eastern
JC-32	Require riparian buffers of at least 35-50 feet with tree planting.	Hazmat	JC Planning				X	J. Brockman (Good Source for water protection efforts) - Panhandle Conservation Manager (301) 608-1188 *212 Potomac.org
JC-42	Strategy 13.5.1: Review existing regulations to ensure adequacy in reducing the amount of future development in identified hazard areas.	All hazards	JC Planning					

JC-43	Strategy 13.5.2: Review all comprehensive plans to ensure that designated growth areas are not in hazard areas.	All hazards	JC Planning					
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JC-44	Strategy 13.5.3: Review all capital improvement plans to ensure that infrastructure improvements are not directed towards hazardous areas.	All hazards	JC Planning					
JC-10	Strategy 9.2.1: Reduce the risk of mobile home damage by suggesting the use of tie-downs with ground anchors appropriate for the soil type.	Severe Wind and Tornado	JC Planning, JC Engineering					
JC-70	Strategy 8.3.1: Encourage the use of laminated glass in window panes during all new construction.	All hazards	JC Planning, JC Engineering					% residential and commercial
JC-01	Implement appropriate natural resource management practices by removing or cutting back trees located close to power lines and placing or increasing vegetation in areas that could benefit from water absorption and shade from tree canopies.	Extreme Temperatures, Severe Wind and Tornado, Severe Winter Storms, Flood	JC Public Works					
JC-54	Form a partnership of agencies to implement an active shooter training program to be delivered to houses of worship, county agencies, volunteer organizations, etc.	Violent Disturbance	JC SO, WV SP, Local Law Enforcement Agencies				X	Active Assailant Policy/Procedure; Rescue Task Force Planning and Integrated Response play in works
JC-82	Strategy 13.8.1: Develop a plan to implement the Needs Assessment recommendations developed by the Public Safety System Consultant.	All hazards	JCECC					

JC-48	Strategy 10.3.2: Pre-wire critical facilities for generators, and provide backup generators for fire departments that do not yet have them.	All hazards	JCESA					Ensure they're serviced
JC-18	Strategy 11.2.2: Continue education and training efforts of first responders and emergency personnel.	All hazards	JCESA, Fire Association					
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JC-35	Strategy 12.1.3: Encourage residents and businesses to maintain their property in or near forested areas (including short grass; thinned trees and removal of low hanging branches, cleaning of dead or dry leaves, needles, twigs, etc.), and to create a buffer zone (defensible space) between structures and adjacent forests.	Wild and Urban Fires	JCESA, Local Fire Departments, JC Fire Association					
JC-39	Strategy 12.1.1: Create displays for children's programs that teach fire safety. Examples of information to be used would be similar to that on the FEMA for kids CD and/or the Sparky Fire Safety Program.	Wild and Urban Fires	JCESA, Local Fire Departments, JC Fire Association					
JC-40	Strategy 12.1.2: Encourage residents in rural areas to inspect and clean their chimneys at least once a year.	Wild and Urban Fires	JCESA, Local Fire Departments, JC Fire Association					
JC-03	Strategy 11.1.2: Increase the knowledge of the general public concerning preparedness through the preparation of informational brochures, town meetings, training seminars, etc.	All hazards	JCHSEM				X	
JC-13	Strategy 13.1.4: Create a public speaking series to include topics such as types of natural disaster and risk, how to develop a family disaster plan, how to develop a family disaster supply kit, how to develop a business continuity plan, simple type of mitigation projects for homeowners, etc. These speaking engagements will be offered to civic groups such as Rotary and Kiwanis Clubs,	All hazards	JCHSEM				X	

	the Chamber of Commerce, Church and interfaith groups, Boy and Girl Scouts, etc.							
JC-17	Strategy 5.3.1: Teach Community Emergency Response Team (CERT) classes in Jefferson County.	All hazards	<b>JCHSEM</b>			<b>X</b>	<b>X</b>	
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JC-20	Strategy 8.1.2: Encourage the use of NOAA Weather Radios that continuously broadcast NWS forecasts and provide direct warnings to the public.	All hazards	<b>JCHSEM</b>				<b>X</b>	
JC-21	Strategy 13.1.1: Create displays for use at public events (health fair, public awareness day, and county fair). This display would include pictures and information, such as that contained in FEMA's Retrofitting for Homeowners Guide, Elevating Your Flood Prone Home, Elevating Residential Structures, and information on the NFIP.	Flood	<b>JCHSEM</b>				<b>X</b>	
JC-26	Strategy 13.4.2: Provide information about local, regional, state, and federal training opportunities to fire departments, EMS, ambulance services, and other emergency responders	All hazards	<b>JCHSEM</b>				<b>X</b>	
JC-33	Strategy 13.4.1: Conduct annual tabletop disaster exercises with local law enforcement, emergency managers, city and county officials, and other disaster response agencies.	All hazards	<b>JCHSEM</b>				<b>X</b>	Comment: Interption of water supply train derailment
JC-36	Strategy 13.1.8: Continue to work with non-governmental organizations (youth services, professional, religious) to promote mitigation education and awareness.	All hazards	<b>JCHSEM</b>				<b>X</b>	

JC-38	Strategy 13.12.1: Contact representatives of rail lines to collect information about emergency planning and risks associated with rail services in the county.	Hazmat	JCHSEM				X	
JC-46	Strategy 4.4.3: Obtain updated information on the number of NFIP policyholders in Jefferson County and its municipalities.	Flood	JCHSEM				X	
JC-47	Strategy 4.5.1: Collect updated information of the number and location of all repetitive loss properties throughout the county and the municipalities.	Flood	JCHSEM				X	
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JC-49	Strategy 4.1.2: Continue to hold local courses on National Flood Insurance Program (NFIP) for realtors, bankers, and insurers.	Flood	JCHSEM				X	
JC-51	Strategy 10.2.1: Develop a part of the website that describes the proper procedures to take to safeguard against and prepare for winter storms.	Severe Winter Storm	JCHSEM				X	
JC-52	Strategy 13.1.2: Create materials that are targeted towards tourist populations. Work with the Jefferson County Convention and Visitors Bureau, the US Park Service and others to alert tourists to potential natural hazard areas and what to do if a natural or man-made hazard occurs during their visit to Jefferson County.	All hazards	JCHSEM			X		
JC-56	Strategy 13.6.1: Review the existing Jefferson County Emergency Operations Plan (EOP) and update where necessary based on the recommendations of the Jefferson County Hazard Mitigation Plan.	All hazards	JCHSEM				X	
JC-59	Strategy 4.1.1: Distribute letters to all property owners in the county regarding potential flood hazards as required for participation in the Community Rating System (CRS).	Flood	JCHSEM				X	

JC-63	Strategy 10.2.2: Work with WVDHSEM and FEMA to develop a long term recovery plan.	All hazards	JCHSEM				X	
JC-64	Strategy 8.1.3: Continue to conduct National Weather Service Storm Spotter classes.	All weather hazards	JCHSEM				X	
JC-69	Strategy 4.5.3: Identify owners of repetitive loss properties who are interested in participating in future property acquisition and relocation projects.	Flood	JCHSEM			X		
JC-71	Strategy 13.1.3: Send news releases to local newspapers, radio, TV stations, and social media outlets about pre-disaster information. Our media strategies are designed to reach all areas of Jefferson County	All hazards	JCHSEM				X	
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JC-72	Strategy 13.1.6: Update the county website to provide hazard related information that is easily accessible. The JCHSEM website has information about disaster preparedness and related activities. The plan is to expand and update the website as needed and as appropriate in a timely manner to benefit all County residents	All hazards	JCHSEM				X	
JC-74	Strategy 13.1.9: Establish all-hazard resource centers to be located in the main office of the county and cities. The centers will act as a repository for information on local hazard identification, preparedness, and mitigation strategies for use by citizens, realtors, and lenders.	All hazards	JCHSEM				X	
JC-75	Strategy 3.1.1: Develop a section of the website explaining the potential for earthquakes, as well as the potential damages from those earthquakes. This information should include measures to take to safe-proof homes and other structures from the potential effects of earthquakes.	Earthquake	JCHSEM				X	
JC-77	Strategy 13.9.1: Continue to support initiatives established under Jefferson County Project Impact, and	All hazards	JCHSEM			X		



	continue as a part of the RNN and participate in its activities.								
JC-79	Strategy 10.3.3: Conduct prime power surveys for all critical infrastructure.	All hazards	JCHSEM			X			
JC-83	Strategy 5.1.1: Apply for Hazardous Materials Emergency Preparedness (HMEP) grant from WVDHSEM to finance the development of a Commodity Flow Study to determine what hazardous materials are used, stored, and shipped through the county.	Hazmat	JCHSEM				X		
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JC-87	Strategy 13.1.7: Continue to work with the Jefferson County school system to promote hazard mitigation education and awareness and discuss ways to better integrate mitigation into the curriculum.	All hazards	JCHSEM			X			
JC-90	Strategy 13.3.1: Meet with groups of potential volunteers to attempt to increase the number of trained responders. Groups will include all county fire departments, doctors, nurses and EMS personnel who may become first responders in a bio-terrorism event.	Violent Disturbance, Terrorism	JCHSEM			X			
JC-93	Strategy 9.1.2: Conduct upgrades on the Sheriff's Mobile Command Center vehicle.	All hazards	JCHSEM		X				
JC-02	Purchase and install generators at critical facilities within Jefferson County	All hazards	JCHSEM			X			
JC-08	Form a partnership amongst county agencies to conduct periodic exercises for all hazards. Primary focus on school bus accident and MCI.	All hazards	JCHSEM				X	Comment: Train Derailments -	

JC-25	Educate the public on the benefit of purchasing flood insurance and increase flood insurance users in Jefferson County.	Flood	JCHSEM				X	
JC-41	Conduct public awareness and education campaigns to target people living near dams and the implications of constructing dams.	Dam Failure	JCHSEM				X	
JC-55	Create and implement programs that address actions to be taken before, during, and after natural and human-caused emergencies.	All hazards	JCHSEM				X	
JC-29	Strategy 9.3.2: Establish a protocol for the sharing of annual shelter survey information between the local Red Cross Chapter and JCHSEM.	All hazards	JCHSEM, ARC				X	
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JC-50	Strategy 4.4.1: Support Jefferson County's efforts to continue the CRS program.	Flood	JCHSEM, JC Commission				X	I need to learn more about this program but if I can help, I would like to.
JC-92	Strategy 3.2.1: Install sensory systems that immediately shut off the flow of gas to critical infrastructure throughout the county as soon as earth movements are felt.	Earthquake	Jefferson County or Municipal Engineering Departments					
JC-57	Strategy 6.4.1: Consider planting various types of vegetation in landslide prone areas to increase soil stability through root length and strength and by absorbing precipitation.	Landslide	Local government agencies					
JC-60	Strategy 7.2.1: Consider implementing open space designations in land subsidence prone areas, to keep those areas undeveloped.	Land Subsidence	Local government agencies					

JC-62	Strategy 6.3.1: Consider implementing open space designations in landslide prone areas, to keep those areas undeveloped.	Landslide	<b>Local government agencies</b>					
JC-86	Strategy 11.2.3: Consider providing heightened security at public gatherings, special events, hazardous materials facilities and critical community facilities and industries.	Violent Disturbance	<b>Local Law Enforcement</b>				X	As resources allow
JC-19	Strategy 8.1.1: Coordinate with the National Weather Service (NWS) to warn residents of impending severe thunderstorm and hailstorm conditions.	Severe Thunderstorm	<b>NWS</b>					
JC-22	Strategy 9.1.1: Coordinate with the National Weather Service (NWS) to warn residents of impending severe winds and possible tornado conditions.	Severe Wind and Tornado	<b>NWS</b>					
JC-28	Strategy 8.2.1: Coordinate with the power company to periodically trim trees near power lines to prevent limb breakage and power failures.	All weather hazards	<b>Power Company, Contractors</b>					
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JC09	Remove brush and vegetation around structures to reduce hazard fuel.	Wild and Urban Fires	<b>Property owners</b>				X	Need to inform our customers
JC-04	Implement the Pillowcase Project in schools, libraries, etc. to teach children about disaster preparedness.	All hazards	<b>Red Cross</b>			X		Jess Hott
JC-31	Ensure the public is aware of shelter locations in times of need through outreach campaigns that focus on shelter education	All hazards	<b>Red Cross</b>			X		Jess Hott
JC-65	Implement the home fire campaign, Sound the Alarm, Save a Live, in homes throughout Jefferson County	Urban Fires	<b>Red Cross</b>					Jess Hott
JC-53	Research and implement successful programs for preventing sexual assault on college campuses.	Violent Disturbance	<b>Shepherd University</b>					

JC-89	Strategy 6.2.1: Develop and distribute educational materials concerning erosion and sediment control and slope stabilization to assets located in landslide prone areas, including the proper installation of erosion control blankets, turf reinforcement mats, silt fences, filter bags, channel dikes and dams and turbidity barriers.	Landslide, Flooding	USGS					
JC-15	Strategy 2.1.1: Provide for an emergency backup power supply at all water treatment facilities in Jefferson County.	All hazards	WVDA, NRCS, Farm Bureau					Comment: Generators/backup power is element of source water protection plans (SWPPs)
JC-30	Strategy 10.1.1: Coordinate with local private contractors to develop mutual aid agreements for emergency snow removal, also develop a Debris Management Plan that can be implemented following a disaster occurrence.	All hazards	WVDOH, Contractors					
JC-61	Strategy 5.2.3: Install Uninterruptible Power Supply (UPS) systems on traffic signals.	All hazards	WVDOT					
Project Number	Project Description	Hazards Addressed	Responsible Agency	Status				Status Notes
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JC-37	Strategy 13.2.1: Develop adequate emergency shelter and evacuation plans for animals (domestic pets, livestock, and wildlife). Establish a committee representative of all areas of the county that will include veterinarians, pet store owners, the Humane Society, animal shelters, the WVU Extension Service and other interested parties to work on animal -specific evacuation and sheltering needs.	All hazards	WVU Extension Service					